Braille 'n Speak
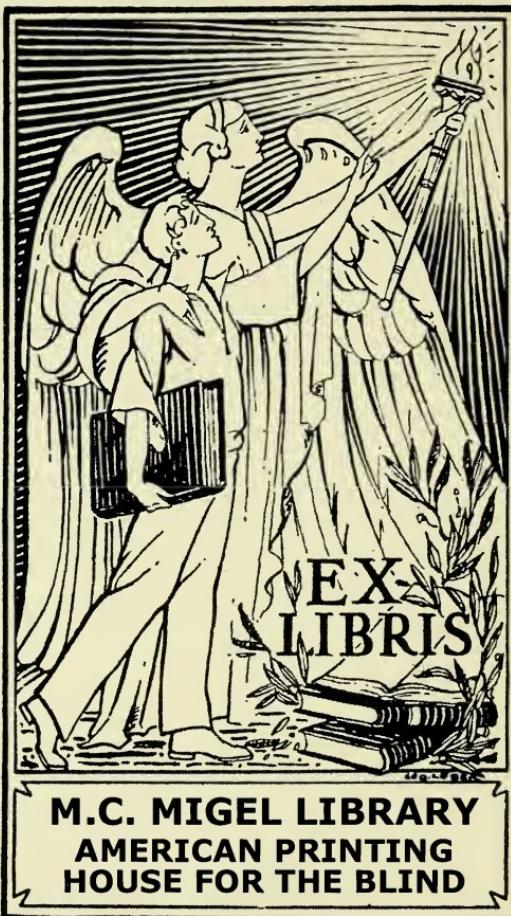
Quick Reference Card

July 1, 1990

Blazie Engineering
3660 Mill Green Road
Street, Maryland 21154
(301) 879-4944

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Contents

Introduction

Braille 'n Speak is a product of Blazie Engineering, 3660 Mill Green Road, Street, Maryland, 21154, (301) 879-4944. A Braille 'n Speak page is 4,096 characters. There are a total of 45 free pages (besides help and clipboard). There is a limit of 30 files. A line ends with a carriage return. A paragraph ends with 2 carriage returns or 2 carriage return/linefeed pairs. Format commands allow you to specify line length and page length at time of printing. Notation: In this reference card, "chord" will be indicated by the symbol "&" immediately preceding the braille cell that is to be chorded. For example, chord-a would be written &a and chord-dots 2-6 would be written &en. Any punctuation following the braille cell to be chorded will be preceded by dots 4-5-6. [y, n] means answer y for yes or n for no; unless otherwise indicated, # means a number (in Nemeth) must be entered; spaces in command sequences are to be ignored.

File Commands

&th - **go to the help file** from anywhere (an abort &z will take you back to where you were) &o # - go directly to the # file; works with a value of 01-30
&o f - **go into file options menu**.
c [file name] &e [file size in blocks (2 Nemeth digits)] &e [y, n] for translator - **create a file** (file names cannot exceed 20 characters; avoid punctuation in file names) avoid Grade 2 in file names.
o [file name] &e - **open an existing file**
d [file name] &e **delete a file**
l - **list all files** (at end of list, gives number of free pages)
t - **tell the name of the currently open file**
p - **write-protect currently open file**
u - **unprotect currently open file**
b - **make currently open file bigger**
s - **make currently open file smaller**
r - **rename currently open file**
f - **tell number of free pages**
for [y, n] - **recover currently open file**
&c - **speak name of currently pointed to file**
&a - **move pointer back one file**
& dot 4 - **move pointer forward one file**
&: - **spell name of currently pointed to file**
&L - **move to top of file list**

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&_ - **move to bottom of file list**
&o - **open the pointed to file**
&d - **delete the pointed to file**
&e, &z, or e - **exit file options menu**

Editing Commands

Entering Text
Any characters typed - appended to the end of the file unless in insert mode
&b backspace
&wh - speak column number and cursor location
&r - speak room left in current file
&p c [y, n] - set cursor tracking
&p t [y, n] - set braille translation mode (can change your mind after you create a file)
&u &u - uppercase lock (not normally used with translator on).
&q - uppercase unlock
&u - uppercase next character only (not normally used with translator on, use dot 6).
&x - control character follows; &x ow escape, &x m- carriage return
&ch # &e - tab (is actual column number after last carriage return)

Cursor Movement and Speaking
& dot 3 - move back one character (gives higher pitch for uppercase)
&- - speak current character, do twice to get phonetic indicator (e.g. alpha, bravo, etc.); (gives higher pitch for uppercase)
& dot 6 - move forward one character (gives higher pitch for uppercase)
& dot 2 - move back one word
& dots 2 5 speak current word, do twice for spelling
& dot 5 - move forward one word
&a - move back one line
&c - speak current line
& dot 4 - move forward one line
& dots 2 3 - move back one paragraph
& dots 5 6 - move forward one paragraph
&L - move back to beginning of text
& dots 4 5 6- move forward to end of text
&dots 1 2 4 5 6 - speak all text from cursor position to end of file
& dots 3 4 5 6 # &e move forward or back # lines; if back, number should be preceded by a minus sign
&dots 1 2 3 4 6 [y, n] - skip blank lines when moving cursor

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&p w &e - set a voice window from 20 to 80 characters long; a voice window is like a soft line; has no effect on formatting or printing
&w [y, n] - speak windows, lines, or sentences (w, l, or s)

Finding, Deleting, and Inserting
&f [text] &e - find forward; text can be up to 255 characters; can use backspace
&f [text] &th - find backward; text can be up to 255 characters; can use backspace
&the [y, n] - set "find including case"; the default for find is NOT to be case-specific
&d [c, w, l, p, z] &e - delete (C means character, W means word, L means line, P means paragraph, and Z means all text from the cursor position to end of file)
& dots 2 4 6 - overwrite current character
&i [text] &e - insert at cursor position, up to 255 characters at a time;
&b backspace is allowed when entering text
&z - abort find, delete, and insert

Clipboard
Any deletion copies the text being deleted into the clipboard (clipboard is limited to 4,095 characters, it is destroyed by speech box mode)
& dots 3 4 6 - insert the contents of the clipboard into file at cursor position
&m - set marker; each file can have its own marker; marker is altered by inserting, deleting, or transmitting; marker is deleted when another marker is set.
& dots 3 4 5 6 m - move cursor to marker position
&d m &e - delete from marker to cursor (or from cursor to marker)
& dots 1 2 6 - copy text between marker and cursor into clipboard without deleting from text

Macros

&n a-z - start recording macro a-z (up to 31 characters)
&n - stop recording a macro
&j a-z execute macro a-z
&k - kill macro speech
&v - verbalize macro speech
& dots 1 6 - pause macro for single character input from user

Speech   Parameters

&ar - go into speech parameters mode
dot 1 - softer volume
dot 4 - louder volume
dot 2 - slower speed
dot 5 - faster speed
dot 3 - lower pitch
dot 6 - higher pitch
space bar - switch between keyboard modes (key echo, key click, and silent keys)
n - switch between digit modes (speak digits or speak numbers)
s - some punctuation
m - most punctuation
t - total punctuation (includes spaces and control characters)
&e or &z - exit speech parameters mode

Data   Transmission

Communications   Parameters
&p b - set baud rate (use first one or two digits of baud rate)
&p dots 4-5-6 [7, 8] - set data length
&p p [n, e, o] - set parity
&p s [1, 2] set stop bits
&p h [s, h, n] - set handshaking (Braille 'n Speak will "tweet" if it starts to lose data when the sending device ignores handshaking)
&p d [h, f, n] - set duplex (in half duplex, typed text is stored and sent out the port; in full duplex, typed text is not stored but is sent out the port; in no duplex, typed text is stored but not sent out the port; in all modes, what is sent in through the port is stored in memory)
&g - turn interactive mode on and off
& dots 3 4 - enter status menu (&dot 4 moves forward, &a moves back; &L moves to top of menu, & dots 456 moves to bottom of menu; this (dots 1-4-5-6) gives elapsed battery time, was (dots 3-5- 6) [y, n] resets battery timer; q sets end-of-line bell)

Transmitting   Data
&p dots 2-6 [y, n] - turn serial port on or off; &t commands automatically turn it on and off.
&t [a, b, l, m, s, p, z] -transmit text;
        a means all (goes to top of file before sending)

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b means braille (sends from cursor position, turns translator off);

L means line;

m means cursor position to mark;

p means paragraph;

s means send, goes to top of file, turns translator off, sets formatting parameters to zero, sends exact duplicate of file;

z means all text from cursor position to end

&p l [parameters] &e - list formatting parameters (left margin, printed line length, top margin, and printed page length); enter space to accept current setting; to change, enter new value followed by &e

&p o [y, n] - reject ornamentation characters (limit repetitive punctuation to 2 occurrences, no effect on receiveing numbers and letters)

&p dots 2 4 6 [y, n] escape sequences recognized

&z - abort a transmission

&p a [y, n] - append linefeed in transmit mode

& dots 3 4 5 for &e - switch speech box mode on and off; speech box means all serial input is spoken and not retained; pressing any key shuts up the voice (as does a control-x from the computer)

Clock/Calendar

&o t - speak time

&o s t - set time

&o s a - set time mode (American 12-hour with AM and PM)

&o s e - set time mode (European 24-hour)

&o d - speak current date

&o s d - set date (month, day, and year)

&o s w - set day of the week

Calculator

&o c - enter calculator

&p - set precision (up to 12 digits)

&e - execute calculation or speak answer again

&c - clears result register and calculator accumulator

functions: + (plus) - (minus) dots 16 (times) dots 34   (divided by) dots 146 (percent)

& dots 3 4 5 square root

&s a-f - store current result in memory a-f

a-f recall memory - can be used in a calculation

&z - exit calculator

Stopwatch

&o w - enter stopwatch
dot 6 - start/stop timer
dot 3 reset timer
space bar - read timer
c - speak last reading
(dots 3-4-5-6) set countdown timer
&z - exit stopwatch

Disk Drive Functions

&s - (storage) activates disk drive
      l - load file from disk drive
      s - save file to disk drive
      t - print file to disk drive
      r - resume reading a file
      k - kill file on disk drive
      f - format disk in disk drive
      d - directory of disk drive
      m - make a subdirectory.
      x - delete a subdirectory

Miscellaneous Commands

hold down space bar (as power is turned on) - silent start
&for &for - warm reset (resets all parameters to default without losing data files)
&for (as power is turned on) - warm reset as above
hold down &i (as power is turned on) - hard reset **(all files are destroyed!)**
&p r - speak firmware revision number
&in &e - altogether (allows entry of extended ASCII characters, like ALT).

Default Values

These parameters are set every time you do a warm or
hard reset. This list is arranged in the same order as the status
menu within the machine.

baud rate: 9600
parity: none
duplex: half
data length: 8
stop bits: 1
handshake: software
append linefeed when transmitting: off
braille translator: off
cursor tracking: on
recognize escape sequences: off
speak windows instead of lines: off
reject ornamentation characters: off
skip blank lines: on
include case during find: off
beep at column: 0
line length: 0
left margin: 0
page length: 0
top margin: 0
Window length: 80
serial port active: off
interactive timeout: 0
interactive mode: off
speech parameters: some punctuation